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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/880,573

DATE: 12/26/2001
 TIME: 11:45:18

Input Set : N:\Crf3\RULE60\09880573.txt
 Output Set: N:\CRF3\12262001\I880573.raw

SEQUENCE LISTING

- 3 (1) GENERAL INFORMATION:
 - 5 (i) APPLICANT: Suzuki, Shintaro
 - 7 (ii) TITLE OF INVENTION: Protocadherin Materials and Methods
 - 9 (iii) NUMBER OF SEQUENCES: 115
 - 11 (iv) CORRESPONDENCE ADDRESS:
 - 12 (A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
 - 13 (B) STREET: 233 South Wacker, 6300 Sears Tower
 - 14 (C) CITY: Chicago
 - 15 (D) STATE: Illinois
 - 16 (E) COUNTRY: USA
 - 17 (F) ZIP: 60606
 - 19 (v) COMPUTER READABLE FORM:
 - 20 (A) MEDIUM TYPE: Floppy disk
 - 21 (B) COMPUTER: IBM PC compatible
 - 22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - 23 (D) SOFTWARE: Patent In Release #1.0, Version #1.25
 - 25 (vi) CURRENT APPLICATION DATA:
 - C--> 26 (A) APPLICATION NUMBER: US/09/880,573
 - C--> 27 (B) FILING DATE: 13-Jun-2001
 - 28 (C) CLASSIFICATION:
 - 30 (vii) PRIOR APPLICATION DATA:
 - 31 (A) APPLICATION NUMBER: 09/099,639
 - 32 (B) FILING DATE:
 - 34 (viii) ATTORNEY/AGENT INFORMATION:
 - 35 (A) NAME: Greta E. Noland
 - 36 (B) REGISTRATION NUMBER: 35,302
 - 37 (C) REFERENCE/DOCKET NUMBER: 27866/34703
 - 39 (ix) TELECOMMUNICATION INFORMATION:
 - 40 (A) TELEPHONE: 312/474-6300
 - 41 (B) TELEFAX: 312/474-0448
 - 42 (C) TELEX: 25-3856
 - 45 (2) INFORMATION FOR SEQ ID NO: 1:
 - 47 (i) SEQUENCE CHARACTERISTICS:
 - 48 (A) LENGTH: 17 base pairs
 - 49 (B) TYPE: nucleic acid
 - 50 (C) STRANDEDNESS: single
 - 51 (D) TOPOLOGY: linear
 - W--> 53 (ii) MOLECULE TYPE: DNA
 - 65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 - 67 AARSSNNTNG ATRYGA
 - 69 (2) INFORMATION FOR SEQ ID NO: 2:
 - 71 (i) SEQUENCE CHARACTERISTICS:
 - 72 (A) LENGTH: 17 base pairs
 - 73 (B) TYPE: nucleic acid
 - 74 (C) STRANDEDNESS: single
 - 75 (D) TOPOLOGY: linear

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W--> 77 (ii) MOLECULE TYPE: DNA
 79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 81 TTRCTRTTTC GNGGNNN 17
 83 (2) INFORMATION FOR SEQ ID NO: 3:
 85 (i) SEQUENCE CHARACTERISTICS:
 86 (A) LENGTH: 131 base pairs
 87 (B) TYPE: nucleic acid
 88 (C) STRANDEDNESS: single
 89 (D) TOPOLOGY: linear
 91 (ii) MOLECULE TYPE: cDNA
 95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 97 AAGGGAGTGG ACTTTGAGGA GCAGCCTGAG CTTAGTCTCA TCCTCACGGC TTTGGATGGA 60
 99 GGGACTCCAT CCAGGTCTGG GACTGCATTG GTTCAAGTGG AAGTCATAGA TGCCAATGAC 120
 101 AACGCACCGT A 131
 103 (2) INFORMATION FOR SEQ ID NO: 4:
 105 (i) SEQUENCE CHARACTERISTICS:
 106 (A) LENGTH: 43 amino acids
 107 (B) TYPE: amino acid
 108 (C) STRANDEDNESS: single
 109 (D) TOPOLOGY: linear
 111 (ii) MOLECULE TYPE: protein
 115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 117 Lys Gly Val Asp Phe Glu Glu Gln Pro Glu Leu Ser Leu Ile Leu Thr
 118 1 5 10 15
 120 Ala Leu Asp Gly Gly Thr Pro Ser Arg Ser Gly Thr Ala Leu Val Gln
 121 20 25 30
 123 Val Glu Val Ile Asp Ala Asn Asp Asn Ala Pro
 124 35 40
 127 (2) INFORMATION FOR SEQ ID NO: 5:
 129 (i) SEQUENCE CHARACTERISTICS:
 130 (A) LENGTH: 131 base pairs
 131 (B) TYPE: nucleic acid
 132 (C) STRANDEDNESS: single
 133 (D) TOPOLOGY: linear
 135 (ii) MOLECULE TYPE: cDNA
 139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 141 AAACGCATGG ATTTGAGGA GTCTTCCTCC TACCAAGATCT ATGTGCAAGC TACTGACCGG 60
 143 GGACCAAGTAC CCATGGCGGG TCATTGCAAG GTGTTGGTGG ACATTATAGA TGTGAACGAC 120
 145 AACGCACCTA A 131
 147 (2) INFORMATION FOR SEQ ID NO: 6:
 149 (i) SEQUENCE CHARACTERISTICS:
 150 (A) LENGTH: 43 amino acids
 151 (B) TYPE: amino acid
 152 (C) STRANDEDNESS: single
 153 (D) TOPOLOGY: linear
 155 (ii) MOLECULE TYPE: protein
 159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 161 Lys Ala Met Asp Phe Glu Glu Ser Ser Tyr Gln Ile Tyr Val Gln
 162 1 5 10 15

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Input Set : N:\Crf3\RULE60\09880573.txt
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r Asp Arg Gly Pro Val Pro Met Ala Gly His Cys Lys Val Leu
20 25 30
p Ile Ile Asp Val Asn Asp Asn Ala Pro
35 40

TION FOR SEQ ID NO: 7:

QUENCE CHARACTERISTICS:

- A) LENGTH: 131 base pairs
- B) TYPE: nucleic acid
- C) STRANDEDNESS: single
- D) TOPOLOGY: linear

LECULE TYPE: cDNA

QUENCE DESCRIPTION: SEQ ID NO: 7:
ACTTTGAGAC CCTGCAGACC TTCGAGTTCA GCGTGGGTGC CACAGACCAT 60
CGCTCCGCAG TCAGGCTCTG GTGCGCGTGG TGGTGCTGGA CCACAATGAC 120
A 131

TION FOR SEQ ID NO: 8:

QUENCE CHARACTERISTICS:

- A) LENGTH: 43 amino acids
- B) TYPE: amino acid
- C) STRANDEDNESS: single
- D) TOPOLOGY: linear

LECULE TYPE: protein

QUENCE DESCRIPTION: SEQ ID NO: 8:
g Leu Asp Phe Glu Thr Leu Gln Thr Phe Glu Phe Ser Val Gly 5 10 15
r Asp His Gly Ser Pro Ser Leu Arg Ser Gln Ala Leu Val Arg 20 25 30
l Val Leu Asp His Asn Asp Asn Ala Pro
35 40

TION FOR SEQ ID NO: 9:

QUENCE CHARACTERISTICS:

- A) LENGTH: 131 base pairs
- B) TYPE: nucleic acid
- C) STRANDEDNESS: single
- D) TOPOLOGY: linear

LECULE TYPE: cDNA

QUENCE DESCRIPTION: SEQ ID NO: 9:
ATTACGAGGC ACTGCAGTCC TTCGAGTTCT ACGTGGGCGC TACAGATGGA 60
CGCTCAGCAG CCAGACTCTG GTGCGGATGG TGGTGCTGGA TGACAAACGAC 120
A 131

TION FOR SEQ ID NO: 10:

QUENCE CHARACTERISTICS:

- A) LENGTH: 43 amino acids
- B) TYPE: amino acid
- C) STRANDEDNESS: single
- D) TOPOLOGY: linear

LECULE TYPE: protein

QUENCE DESCRIPTION: SEQ ID NO: 10:
I Leu Asp Thr Glu Asp Leu Glu Ser Phe Glu Phe Thr Val Glu

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248	1	5	10	15
252	Ala Thr Asp Gly Gly Ser Pro Ala Leu Ser Ser Gln Thr Leu Val Arg			
253		20	25	30
255	Met Val Val Leu Asp Asp Asn Asp Asn Ala Pro			
256		35	40	

258 (2) INFORMATION FOR SEQ ID NO: 11:

260 (i) SEQUENCE CHARACTERISTICS:
261 (A) LENGTH: 131 base pairs
262 (B) TYPE: nucleic acid
263 (C) STRANDEDNESS: single
264 (D) TOPOLOGY: linear

(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 272 AAGGCCTTTC ATTGGAGGA TCAGAGAGAG TTCCAGCTAA CCGCTCATAT AAACGACGGA 60
 274 GGTACCCCGG TTTTGGCCAC CAACATCAGC GTAACATAT TTGTTACTGA CCGCAATGAC 120
 276 AACGCCCGC A 131

278 (2) INFORMATION FOR SEQ ID NO: 12:

278 (2) INFORMATION FOR SEQ ID NO: 12:

280 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43 amino acids

281 (A) LENGTH: 43 amino acids
282 (B) TYPE: amino acid
283 (C) STRANDEDNESS: single
284 (D) TOPOLOGY: linear

286 (ii) MOLECULE TYPE: protein

290 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

292 Lys Ala Phe Asp Phe Glu Asp Gln Arg Glu Phe Gln Leu Thr Ala His
293 1 5 10 15

295 Ile Asn Asp Gly Gly Thr Pro Val Leu Ala Thr Asn Ile Ser Val Asn

296 20 25 30

298 Ile Phe Val Thr Asp Arg Asn Asp Asn Ala Pro

299 35 40

301 (2) INFORMATION FOR SEQ ID NO: 13:
303 (i) SEQUENCE CHARACTERISTICS:
304 (A) LENGTH: 131 base pairs
305 (B) TYPE: nucleic acid
306 (C) STRANDEDNESS: single
307 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

314 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

316 AAGGCGGTGG ATTACGAAAT CACCAAGTCC TATGAGATAG ATGTTCAAGC CCAAGATCTG 60

318 GGTCCCAATT CTATTCCTGC TCATTGCAAA ATTATAATAA AGGTCTGTGG A TGTCAACGAC 120

320 AACGCTCCCA A 131

322 (2) INFORMATION FOR SEQ ID NO: 14:

324 (i) SEQUENCE CHARACTERISTICS:

325 (A) LENGTH: 43 amino acid

325 (A) LENGTH: 45 amino acids
326 (B) TYPE: amino acid
327 (C) STRANDEDNESS: single
328 (D) TOPOLOGY: linear

330 (ii) MOLECULE TYPE: protein

334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

RAW SEQUENCE LISTING
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Input Set : N:\Crf3\RULE60\09880573.txt
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336 Lys Ala Val Asp Tyr Glu Ile Thr Lys Ser Tyr Glu Ile Asp Val Gln
337 1 5 10 15
339 Ala Gln Asp Leu Gly Pro Asn Ser Ile Pro Ala His Cys Lys Ile Ile
340 20 25 30
342 Ile Lys Val Val Asp Val Asn Asp Asn Ala Pro
343 35 40
345 (2) INFORMATION FOR SEQ ID NO: 15:
347 (i) SEQUENCE CHARACTERISTICS:
348 (A) LENGTH: 135 base pairs
349 (B) TYPE: nucleic acid
350 (C) STRANDEDNESS: single
351 (D) TOPOLOGY: linear
353 (ii) MOLECULE TYPE: cDNA
357 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
359 TATGACCATG ATTACGAGAC AACCAAAGAA TATACTGC GGATCCGGC CCAGGATGGT 60
361 GGCCGGACTC CACTTTCCAA CGTCTCCGGT CTAGTAACCG TGCAGGTCCCT AGACATCAAC 120
363 GACAATGCC CCCCCA 135
365 (2) INFORMATION FOR SEQ ID NO: 16:
367 (i) SEQUENCE CHARACTERISTICS:
368 (A) LENGTH: 44 amino acids
369 (B) TYPE: amino acid
370 (C) STRANDEDNESS: single
371 (D) TOPOLOGY: linear
373 (ii) MOLECULE TYPE: protein
377 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
379 Tyr Asp His Asp Tyr Glu Thr Thr Lys Glu Tyr Thr Leu Arg Ile Arg
380 1 5 10 15
382 Ala Gln Asp Gly Gly Arg Thr Pro Leu Ser Asn Val Ser Gly Leu Val
383 20 25 30
385 Thr Val Gln Val Leu Asp Ile Asn Asp Asn Ala Pro
386 35 40
388 (2) INFORMATION FOR SEQ ID NO: 17:
390 (i) SEQUENCE CHARACTERISTICS:
391 (A) LENGTH: 129 base pairs
392 (B) TYPE: nucleic acid
393 (C) STRANDEDNESS: single
394 (D) TOPOLOGY: linear
396 (ii) MOLECULE TYPE: cDNA
400 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
402 GGGGGGTCGA TTACGAGGAG AACGGCATGT TAGAGATCGA CGTGCAGGCC AGAGACCTAG 60
404 GACCTAACCC AATTCCAGCC CATTGCAAGG TCACAGTCAA GCTCATCGAC CGCAATGATA 120
406 ACGCCCCCA 129
408 (2) INFORMATION FOR SEQ ID NO: 18:
410 (i) SEQUENCE CHARACTERISTICS:
411 (A) LENGTH: 43 amino acids
412 (B) TYPE: amino acid
413 (C) STRANDEDNESS: single
414 (D) TOPOLOGY: linear
416 (ii) MOLECULE TYPE: protein

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/880,573

DATE: 12/26/2001

TIME: 11:45:19

Input Set : N:\Crf3\RULE60\09880573.txt
Output Set: N:\CRF3\12262001\I880573.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:53 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:77 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:1010 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1027 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:1033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1044 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:3475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100
L:3491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101